

Bitronics DualBus Switch Kit User Manual



P73075

F1U123-KIT

Introduction

Thank you for purchasing the Belkin Components Bitronics DataSwitch Kit! Finally, you can share parallel-port devices and printers like never before. Because it's electronic, it's completely safe for all printers and does not void your printer's warranty. And, since it operates like a manual switch, no software is required or power adapter needed. Its advanced yet simple design offers full IEEE 1284 communication in all modes for any and all parallel port devices. Share your parallel-port Zip® Drive between two PCs, or use a Laser Printer and a scanner on the same parallel port. All you have to do is press a button.

Package Contents

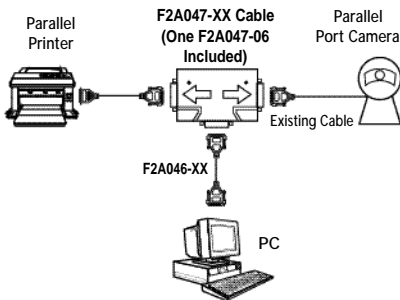
(1) Bitronics DataSwitch:	F1U123
(1) 6 ft. (1.8m) Belkin Pro Series IEEE 1284-compliant parallel cable, DB25 M/M, straight-through:	F2A047-06
(1) Peripheral Sharing registration card	P72009
This manual	

Hardware Installation

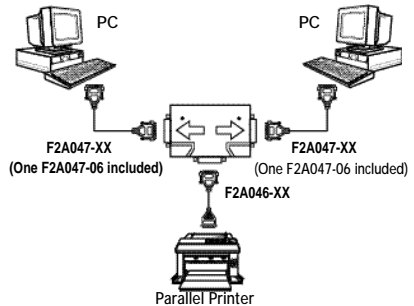
The F1U123 Bitronics DataSwitch has three DB25 ports for connecting to the devices and/or computers. Depending on your application, the Bitronics DataSwitch Kit can be used in two different ways:

- a) One PC to two parallel port devices
- b) Two PCs to one parallel port device

Please refer to the figure below for your application. Note that the included F2A047-06 cable can be used in any instance shown below.



a) One PC to two parallel port devices

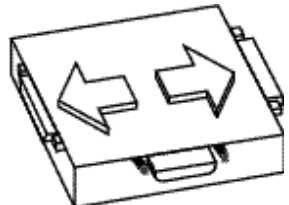


b) Two PCs to one parallel port device

Usage

The Bitronics DataSwitch has two buttons on top shaped like arrows. When depressed, these buttons instantly “connect” the middle DB25 port (common) to the port adjacent to the button. An LED next to the button indicates which port is currently active.

To select Port A, firmly depress the button next to port A until the LED next to the button illuminates. The connection between Port A and the common port will remain active until Port B is selected.



Notice for Plug-and-Play Device Users

Plug-and-Play is a new technology that allows the operating system to automatically recognize a device when the system boots up. However, if the Plug-and-Play device is connected to the F1U123, it must be “connected” to the PC when booting up for the operating system to recognize it. This means that in Diagram “a”, the port the Plug-and-Play device is connected to must be selected, or in Diagram “b”, the PC that is booting up must be selected. Examples of Plug-and-Play devices are removable-media hard disks, Parallel-to-SCSI adapters, and some brands of scanners.

Recommended Cabling

Belkin recommends the use of IEEE 1284-compliant cables for maximum signal transfer and integrity, especially in high-speed EPP and ECP modes. Below are the three IEEE 1284-compliant cables Belkin Components manufactures:

- F2A046-XX Belkin Pro Series IEEE 1284-compliant parallel printer cable, DB25 M/Cent 36M
- F2A047-XX Belkin Pro Series IEEE 1284-compliant parallel cable, DB25 M/M, straight-through
- F2A045-XX Belkin Pro Series IEEE 1284-compliant parallel printer cable, DB25 M/MicroCent 36M*
*Used in connecting to a HP 5P/6P or any parallel printer that has a Micro Centronics 36 connector.

The “XX” is the length of cable in feet. Hence, an F2A047-06 is a 6 ft.1.8m cable.

Troubleshooting

A Cables

- Make sure you are NOT using file-transfer cables. Special cables used in DOS Interlink™, LapLink®, or Win95 Direct Cable Connection file-transfer cables are not wired “straight-through”. In these cables, not all the pins are used, therefore they will not function at all. Belkin’s F2A047-xx cables, such as the one included in this package, are recommended for 100% reliable operation.
- Make sure you are using high-quality IEEE 1284-compliant cables. Most new printers and parallel port devices demand the use of these cables mainly for signal integrity especially in high-speed data transfers. Lower quality cables do not feature the required double-shielded and twisted pairs, thereby increasing the chances of communication errors. The special construction of Belkin’s IEEE 1284-compliant cables not only reduce interference and retain a high signal-to-noise ratio, but also provide a lifetime of superior performance.
- Make sure your cables are not too long. Data transferred through the parallel port is reliable with 1.8m cables. If IEEE 1284-compliant cables are used, 3m cables may also be used. However, cables longer than 3m begin to degrade the signal, and signal loss is apparent by the much lower transmission speed and increased errors in the application.

Troubleshooting (continued)

B. Application Errors

- Check that the proper port is selected.
To achieve a link between the PC and the device, the LED of the correct port must be illuminated.
- Connect the devices directly to the PC.
If the device does not properly respond when connected directly to the PC, the device may be damaged, not the F1U123 switch. Consult with the manufacturer's tech support for assistance.
- Try rebooting the computer.
By rebooting, the operating system checks the ports for the presence of the device. Make sure the correct port is selected so that the drivers are loaded, and the device is fully operable.
- Not enough power is being supplied to the switch.
The F1U123 does not require power in normal instances. However, some parallel port devices and computers do not provide enough power to the switch. Therefore, an optional power adapter must be used. We recommend using Belkin part number F5B001-PWR. It is a special 7VDC 200mA power supply, and simply plugs into the power connector on the side of the F1U123 switch. Use of other power supplies providing more than 7VDC will significantly compromise the life of the switch.

Other Belkin Products

- Sleek ergonomic design
- Unique thumb cradle for added support
- Includes CursorWare® software for custom settings
- Three functional MicroSwitch buttons
- Connects to PS/2 port or standard RS-232 serial port



***Ergo*MOUSE™**

***OmniView*™ KVM Switch Family**

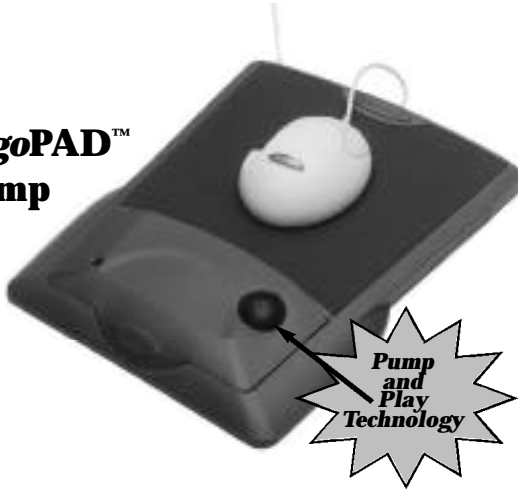
- Dedicated processors for flawless boot-up
- 1600 x 1200 maximum video resolution
- Serial Mouse Conversion (OmniView™ SE and PRO models)
- DB25 Expansion ports
- Microsoft® IntelliMouse® support



Other Belkin Products (continued)



ErgoPAD™ Pump



- Comfort zone provides flexible ergonomic support
- Curved design allows natural wrist movement
- Cable management system tucks away mouse cable
- Also available ErgoPAD™ Gel with a GelFlex™ comfort zone
- ErgoPAD™ Premiere with AirFlex™ comfort zone
- Available in black, blue and gray
- Provides full IEEE 1284 Bi-directional communication
- Connect up to 4 computers to 2 devices simultaneously
- Works with Zip® drives, scanners, printers, cameras or any parallel device
- File-transfer feature
- Comes with 2 IEEE 1284 switchbox cables

Bitronics DualBus Switch Kit



Information

FCC Statement

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin Components, of 501 West Walnut Street, Compton CA 90220, declare under our sole responsibility that the product:

F1U123-KIT

to which this declaration relates:

Complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE Declaration of Conformity

We, Belkin Components, declare under our sole responsibility that the F1U123-KIT, to which this declaration relates, is in conformity with Generic Emissions Standard EN50081-1 and with Generic Immunity Standard EN50082-1 1992.

Belkin Components One Year Product Warranty

Belkin Components warrants this product against defects in materials and workmanship for one year. If a defect is discovered, Belkin will, at its option, repair or replace the product at no charge provided it is returned during the warranty period, with transportation charges prepaid, to the authorized Belkin dealer from whom you purchased the product. Proof of purchase may be required.

This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication; if the product has been modified without the written permission of Belkin; or if any Belkin serial number has been removed or defaced.

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No Belkin dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

BELKIN IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE TO OR REPROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH BELKIN PRODUCTS.

Some states do not allow the exclusion or limitation of incidental or consequential damages or exclusions of implied warranties, so the above limitations of exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.



belkin.com

Belkin Components

501 West Walnut Street
Compton • CA • 90220 • USA

Tel: 310.898.1100

Fax: 310.898.1111

Belkin Components, Ltd.

Unit 13 • Gatelodge Close • Round Spinney
Northampton • Northants • NN3 8RX • UK

Tel: +44 (0) 1604678300

Fax: +44 (0) 1604678330

Belkin Components B.V.

Diamantlaan 8 • 2132 WV
Hoofddorp • The Netherlands

Tel: +31 (0) 235698765

Fax: +31 (0) 235612694